GRADING AND DRAINAGE PLAN NOTES

- 1. BOUNDARY & TOPOGRAPHY INFORMATION IS BASED ON A SURVEY TITLED "TOPOGRAPHIC SURVEY OF PROPERTY, LOT NO.16&17, BLOCK 1904, TOWNSHIP OF SOUTH ORANGE VILLAGE, COUNTY OF ESSEX, NEW JERSEY" BY MORGAN ENGINEERING & SURVEYING DATED 2/5/2017.
- 2. THE GENERAL CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE MEASUREMENTS SHOULD BE TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- 3. THE GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE UTILITY COMPANIES AS TO LOCATION AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
- 4. EXCAVATED MATERIAL CONTAINING ROCK OR STONE GREATER THAN SIX (6) INCHES IN LARGEST DIMENSION IS UNACCEPTABLE AS FILL TO WITHIN THE PROPOSED BUILDING AND PAVING AREA.
- 5. ROCK OR STONE LESS THAN SIX (6) INCHES IN LARGEST DIMENSION IS ACCEPTABLE AS FILL TO WITHIN TWENTY-FOUR (24) INCHES OF SURFACE OF PROPOSED SURGED WHEN MIXED WITH SUITABLE MATERIAL AS PERMITTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
- 6. ROCK OR STONE LESS THAN TWO (2) INCHES IN LARGEST DIMENSION AND MIXED WITH SUITABLE MATERIAL IS ACCEPTABLE AS FILL WITHIN THE UPPER TWENTY-FOUR (24) INCH OF PROPOSED SUBGRADE AS PERMITTED BY THE OWNER'S GEOTECHNICAL ENGINEER.
- 7. COMPACTION CRITERIA FOR FILL PLACED IN THE FOLLOWING AREAS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM PERCENTAGE OF MAXIMUM MODIFIED PROCTOR DRY DENSITY AS DETERMINED BY ASTM D-1557 USED ON REPRESENTATIVE SOIL SAMPLES, UNLESS MORE STRINGENT CRITERIA GIVEN ELSEWHERE:

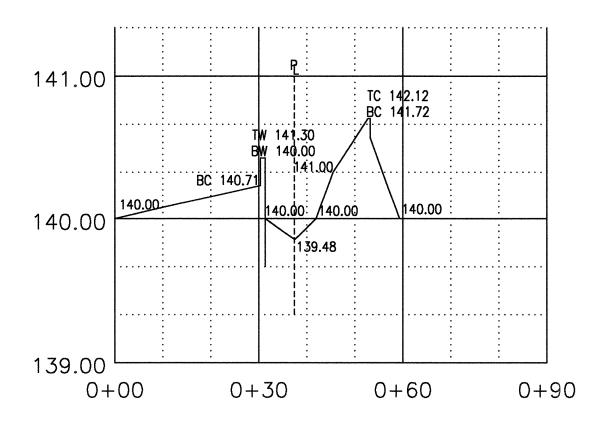
TILL AREA	STANDARD PROCTOR DRY DENSITY
SIDEWALKS	95%
PAVEMENTS AND ROADWAYS	95%
ANDSCAPE AREAS	93%
rench backfill	SAME AS SURROUNDING ARE

- 8. GRADE ALL AREAS WHERE FINISH GRADE ELEVATIONS OR CONTOURS ARE INDICATED ON DRAWINGS. GRADED AREAS SHALL BE UNIFORM AND SMOOTH, FREE FROM ROCK, DEBRIS, OR IRREGULAR SURFACE CHANGES. FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.10 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATION, AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS.
- 9. ALL CONCRETE, UNLESS OTHERWISE NOTED OR SPECIFIED BY REGULATORY AUTHORITIES, SHALL BE 4000 PSI.
- 10. REPRESENTATIVES OF THE MUNICIPALITY SHALL HAVE THE RIGHT TO INSPECT THE DRAINAGE FACILITIES LOCATED ON THE PROPOSED LOTS FROM TIME TO TIME AS DEEMED NECESSARY.
- 11. CATCH BASINS SHALL BE CLEANED OUT PERIODICALLY TO PREVENT THE BUILDUP OF SEDIMENT AND DEBRIS IN STRUCTURES.

STORMWATER NOTE:

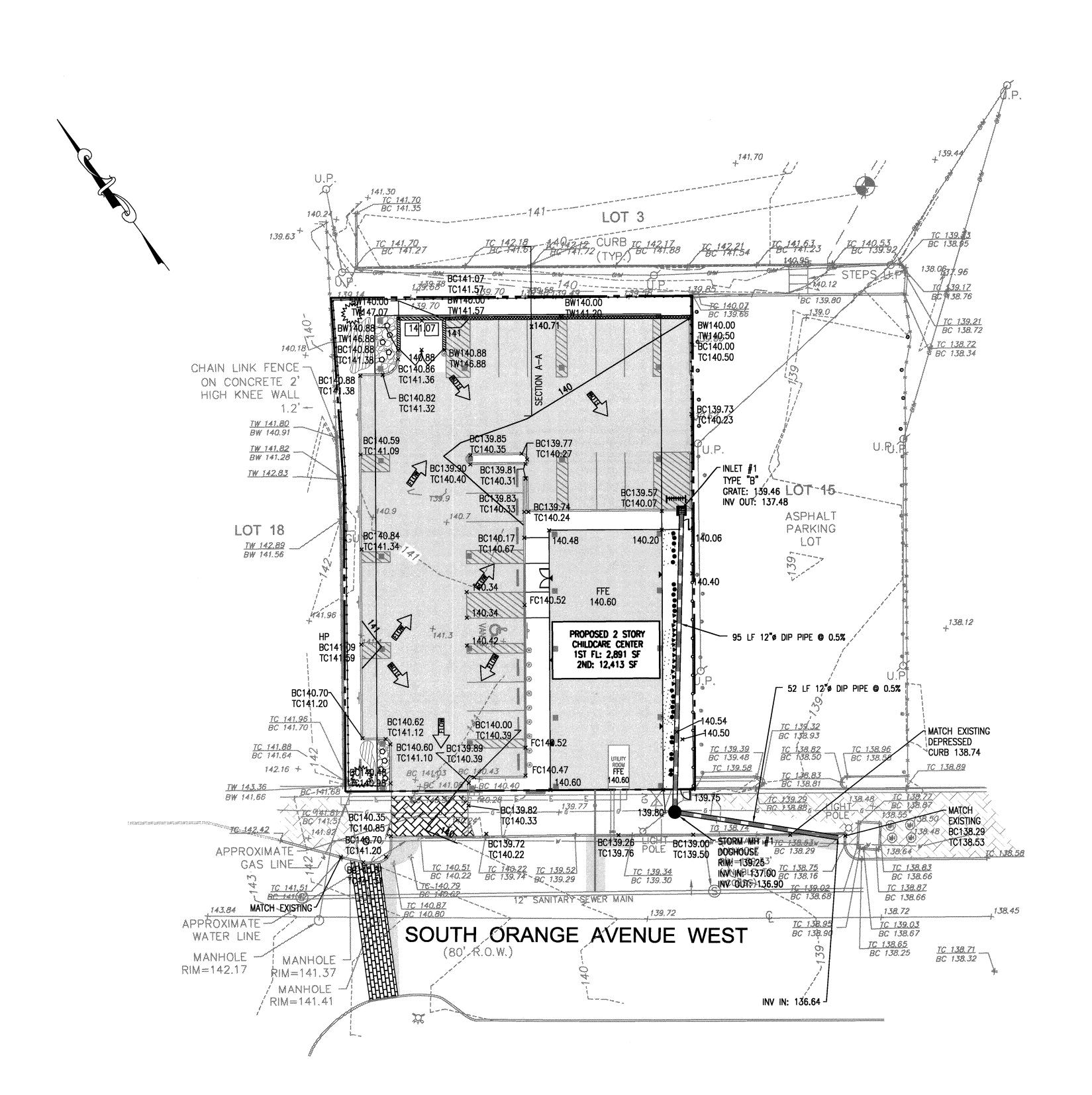
THE PROPOSED DEVELOPMENT WILL REDUCE IMPERVIOUS LOT COVERAGE FROM 100 PERCENT UNDER EXISTING CONDITIONS TO 78.3 PERCENT UNDER PROPOSED CONDITIONS. THIS REDUCTION IN IMPERVIOUS LOT COVERAGE WILL REDUCE BOTH THE VOLUME OF STORM RUNOFF AND PEAK FLOW OF STORM RUNOFF FROM THE SITE THUS PROVIDING A BENEFIT TO THE EXISTING DOWNSTREAM STORMWATER SYSTEM.

LEGEND					
	EXISTING	PROPOSED			
STORM SEWER	N/A				
PROPERTY LINE					
MANHOLE	N/A				
CATCH BASIN	N/A	#			
SPOT ELEVATION	70; 100,57° 80; 100,42°x	99.30 ⁺			
CONTOUR		99			



SECTION A-A

SCALE: 1"=20'





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1			
NO.	DATE	DESCRIPTION	INT.
1	1.17.19	FOR COMPLETENESS REVIEW	GPG
2	4.16.19	FOR MAY 6TH HEARING	GPG
3	5.17.19	FOR 6.3.19 PLANNING BOARD	GPG
REVISION			
NO.	DATE	DESCRIPTION	INT.
1	5.8.19	PER MAY 4, 2019 REVIEW MEMO	APP

MATTHEW B. JARMEL, AIA, MBA	NJ LIC AI0-12787
AZ LIC 48159 CO LIC ARC-401483	MN LIC 46404 NC LIC 10120
CT LIC ARC-401483	
DC LIC ARC101849	
DE LIC \$5-0007256	
FL LIC AR98965	PA LIC RA-014851-B RI LIC ARC.0004765
GA LIC RA011484 IA LIC 05577	SC LIC AR. 9163
IL LIC 001.020069 MA LIC AR10286	TN LIC 103850 TX LIC 20992
MA LIC AR10286	TX LIC 20992 VA LIC 0401 014089
MD LIC 12662 MI LIC 1301052189	
IRWIN H. KIZEL, AIA, PP CT LIC 08522	NJ LIC 21Al00794700 NJ PP LIC 33Ll00243100
DICHADO A JADMEI DE	
CT LIC PEN0027735	MN EIC 47482
CT LIC PEN0027735 FL LIC 83149 MI LIC 6201052339	NJ LIC 37491 MN LIC 47482 NY LIC 073898-1 PA LIC PEO70600
DE LIC 18754 VT LIC 88498	MA LIC 50445 TX LIC 123822
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GERARD P. GESARIO, PE	NJ LIC GE038255
FREDERICK KINCAID, RA	NJ LIC 21A1018294
JEROME LESLIE EBEN, FAIA, PP PA LIC 016502-B	NJ LIC AI 8883 NY LIC 019151
VA LIC 0401 012073	20017101
CHERYL SCHWEIKER, AIA	NJ LIC 21AI02069000
NI State Board Of Archite	PA LIC RA407927
NJ State Board Of Archite NJ State Board Of Engineers & Land Surv	reyors Authorization No. 24GA280530
Project: THE LEARN	ING EXPERIENCE
109 & 115 SOUTH	ORANGE AVENUE WES
TOWNSHIP OF SO	OUTH ORANGE VILLAGE
ESSEX	COUNTY, NJ
	04, LOTS 16&17
Project No:	Scale:
'	
TLENJ-S-17-264	1" = 20
Drawn By:	Approved By:
	~n4

GRADING AND DRAINAGE PLAN

PRINCIPALS

Sheet No: of:

5 13

Initial Date:

PROFESSIONAL ENGINEER
N.J. LIC. #GE038255

PROJECTS\TLENJ-S-17-264 TLE SOUTH ORANGE NJ\CAD\17-264 C-400 GRAD PLAN.DWG APR